



Monterey Bay National Marine Sanctuary

Sanctuary Office Report



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A REPORT FOR THE SANCTUARY ADVISORY COUNCIL MEMBERS

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ABOUT THE SANCTUARY

Designated in 1992, the Monterey Bay National Marine Sanctuary (MBNMS or Sanctuary) is a federally protected marine area offshore of California's central coast. Stretching from Marin to Cambria, the MBNMS encompasses a shoreline of 276 miles and 5,322 square nautical miles of ocean.

Supporting one of the world's most diverse marine ecosystems, it is home to numerous mammals, seabirds, fishes, invertebrates and plants in a remarkably productive coastal environment. The MBNMS was established for the purpose of resource protection, research, education and public use of this national treasure.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AND NATIONAL MARINE SANCTUARY PROGRAM (NMSP) NEWS

National Marine Sanctuary Program and All American Marine Host a 3-Vessel Preview in Bellingham, Washington

On August 23, 2005, Tim Keeney, Deputy Assistant Secretary for Oceans and Atmosphere, visited All American Marine in Bellingham, Washington, to see the progress of the construction of three National Marine Sanctuary Program vessels and the purpose of the boats in protecting the nation's marine treasures. Keeney was joined by the city's mayor and port commissioners on the tour of the boatyard. The vessels represent the sanctuary program's growth and the increased need to have the personnel present on the water to ensure effective and efficient sanctuary management. The vessels are for enforcement efforts in the Florida Keys NMS, research in Stellwagen NMS, and research efforts at

the Central California sanctuaries. Construction pictures for the vessels are available on the NMSP internal website. Pictures will be updated on a monthly basis: https://inside.nos.noaa.gov/sanctuarynet/maops/new_boats.html.

The NMSP Forms Final Advisory Council for Its Sites

The NMSP is pleased to report the signing of the charter for the Monitor National Marine Sanctuary Advisory Council. NMSP will begin selecting members for the council shortly. This action means that all 13 sanctuaries and the Northwestern Hawaiian Islands Coral Reef Reserve have established advisory councils. These advisory councils are important bodies for the NMSP. The councils are comprised of representatives from various stakeholder groups and state and Federal agencies that provide "grassroots" advice to the sanctuary managers on operations and future direction for the sanctuary.

NOAA and the NMSP Have a Large Presence at the Annual National Marine Educators Conference

The NOAA Office of National Marine Sanctuaries was a co-sponsor of the National Marine Educators Association (NMEA) conference held, July 10-17, 2005 on Maui, Hawai'i. NMEA brings together those interested in the study and enjoyment of the world of water — both fresh and salt. NMEA provides a valuable focus for marine and aquatic studies worldwide. There were three sanctuary strands, which highlighted 25 hands-on sessions ranging from linking research and education to shark science and ocean observing of rocky intertidal and sandy beach ecosystems for teachers to the tracking of albatross. Other NOAA offices such as the NOAA Coral Reef Conservation Program, National Ocean Service and NOAA Office of Education and Sustainable Development also offered a wide variety of sessions throughout the NMEA conference.

NOAA National Marine Sanctuaries Launches Online Marine Life Field Guide

NOAA National Marine Sanctuary Program has unveiled a new, innovative, online resource that highlights the diverse marine life of America's ocean and Great Lakes treasures. The Encyclopedia of the Sanctuaries is available online and is part of a continuing NOAA effort to enhance public awareness, understanding and appreciation of the ocean environment. This online field guide provides photos, streaming video and important biological information for more than 100 marine species from each of the national marine sanctuaries in the United States. This is a fantastic resource for formal and informal educators, students of all ages, zoos and aquariums, science and technology centers, and natural history museums. The Encyclopedia of the Sanctuaries is a useful resource in the public's quest to better understand the marine environments that thrive in our National Marine Sanctuary System. The website is available at: <http://marinelife.noaa.gov/>



National Marine Sanctuary Staff Visit the Galapagos National Park and Marine Reserve

National Marine Sanctuary staff visited the Galapagos National Park and Marine Reserve to explore possible short and long-term collaborations between the park and the NMSP/NOAA. The NOAA delegation met with more than 50 staff from USAID, US Embassy, Ecuador Ministry of Environment, Galapagos National Park and Marine Reserve and various individuals from the tourism, fishing, research and conservation sectors. In total, the group attended over 25 meetings and met with over 50 individuals. They will compile their findings and recommendations in a trip report and begin discussion with other parts of NOAA. In addition, a meeting has been scheduled on August 17th to brief the new US Ambassador to Ecuador who would like to discuss opportunities for NOAA collaborations in Ecuador.

The Great Barrier Reef Marine Park Authority Was Visited by Staff From the National Marine Sanctuary Program

National Marine Sanctuary Program staff completed two weeks working in Queensland, Australia with Great Barrier Reef Marine Park Authority staff in August. The trip was part of an ongoing staff exchange program between the GBRMPA and NMSP. The purpose of the visit was for staff to learn about the permitting and environmental impact assessment systems in place at the GBRMPA to inform anticipated changes to the NMSP's permitting system. While there are certainly many differences between the two programs, staff learned the issues facing these programs are very similar and discovered some innovative ways to address the problems. A full trip report is forthcoming.

Memorandum of Agreement is Completed for General Enforcement

National Marine Sanctuary Program (NMSP) is pleased to report the completion of a Memorandum of Agreement for General Enforcement among the NMSP, National Marine Fisheries Service, National Park Service (NPS) and Fish and Wildlife Service (FWS). This agreement will be one of the highlights in the NPS Ocean Park Stewardship Strategy to be announced by the NPS Director this week. The agreement is one of the NOAA deliverables of the President's U.S. Ocean Action Plan. It formalizes the nationwide relationship among the parties, although many such instances of cooperation are already occurring at the individual site (park, sanctuary, refuge, etc.) level. The agreement was developed to achieve greater efficiencies in protecting and conserving the nation's marine resources.

NATIONAL MARINE SANCTUARY NEWS

Channel Islands NMS

The Channel Islands Marine Sanctuary (CINMS), in partnership with the Channel Islands Sanctuary Foundation (CISF), has issued a Request for Proposals (RFP) to conduct research in collaboration with commercial and/or recreational fishers. The focus of this RFP is on projects related to Marine Protected Areas (MPAs). Two types of projects are being requested: 1) collaborative research assessing fishing effects and intensity across the Channel Islands Marine Protected Area network, and 2) education and outreach related to MPAs and/or collaborative research. This RFP is a part of the Collaborative Marine Research Program, which was established by CINMS and CISF to involve stakeholders in cooperative research, resource assessment and protection. Proposals are due on August 15, 2005 and project(s) will be announced on September 1, 2005. More information is available at www.cisanctuary.org.

Cordell Bank NMS

NOAA's Cordell Bank National Marine Sanctuary and the National Fish and Wildlife Foundation are supporting Oikonos Ecosystem Knowledge (oikonos.org) in its second year of a satellite tracking study, to learn about the movements and habitat use of the Black-footed Albatross. This past week aboard Cordell Bank National Marine Sanctuary's RV C. Magister, nine albatross were tagged within Cordell Bank NMS waters on July 19-20 2005. After a week of tracking, one albatross remains within Cordell Bank NMS waters, with two other birds within the Monterey Bay NMS. The other six birds have initiated their broad-ranging movements across the North Pacific Ocean. These albatross are equipped with transmitters on their back feathers that are programmed to operate continuously for up to 50 days. The birds can be followed real-time via the internet at: <http://www.seaturtle.org>

Fagatele Bay NMS

The Sanctuary Advisory Group held its third meeting last week. All but four members attended, and the new officers were recognized. High Talking Chief Lauvao Stephen Haleck will be president for a two-year term, and Dean Hudson assumed the vice-chairmanship for a one-year term. Orientation for the members continued as two presentations were given by the Sanctuary Manager: one on resource protection and the other on the 2006 Annual Operating Plan. Members discussed the upcoming 20th anniversary year, and suggested activities to mark the event.

Florida Keys NMS

On July 14, the Florida Keys National Marine Sanctuary Damage Assessment and Restoration team did a post hurricane Dennis survey of the reef tract to see how the hurricane affected the corals. From Key Largo to Key West, reefs showed evidence of the enormous hydrodynamic energy associated with this storm. The most striking example of this was the steel I-beam channel markers and reef markers that were bent in half at the substrate level. Elkhorn thickets (*Acropora palmata*) in Horseshoe Reef (Key Largo) had extensive sandblasting and scouring of the live tissue, leaving numerous white, blotchy bald spots on most of the colonies, whereas some Elkhorn thickets in other areas were either virtually destroyed (Looe Key) or heavily damaged (Western Sambo). There were also many examples of Boulder Brain coral (*Colpophyllia natans*) and Star corals (*Montastrea annularis*, *Montastrea cavernosa*) being tossed around so much that the only living tissue remaining on these coral heads was found in the recesses of their underlying skeleton.

Flower Garden Banks NMS

Sanctuary Education Workshop Shows How ROVs Can Help in Sanctuary Management From July 23-27, the Flower Garden Banks NMS hosted its Down Under, Out Yonder Advanced Education Workshop focused on "ROV-ing the National Marine Sanctuaries: Use of Technology in Managing Ocean and Great Lakes Resources." Workshop participants learned about the many types of technology used in underwater exploration, including remotely operated vehicles (ROVs) and the roles technology plays in science-based resource management. Participants also built their own programmable ROVs using LEGO Robotics kits and software. Following the classroom lectures and hands-on activities, participants boarded a dive boat to do some SCUBA diving within the sanctuary and hear from a variety of additional presenters. The annual workshop and field expedition is sponsored by the non-profit Gulf of Mexico Foundation, in partnership with the FGBNMS. This year's workshop is also a recipient of a National Marine Sanctuary Program Education Mini-Grant.

USS Monitor NMS

On July 22- 28, Jeff Johnston and John Broadwater participated in a filming expedition to the *USS Monitor* with Jean-Michelle Cousteau's Ocean Futures Society. The Monitor was the first Sanctuary to be filmed for an upcoming documentary that OFS is making about the NMSP. The documentary, "America's Underwater Treasures," is expected to air sometime in the spring of 2006.

Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve

On August 3, ocean explorer Jean-Michel Cousteau took time off from his vacation to advocate for ocean conservation in the Northwestern Hawaiian Islands. Cousteau is president of the Ocean Futures Society and a board member for the National Marine Sanctuary Foundation, who alerted the Reserve of this opportunity. The Reserve arranged for Jean-Michel to visit with Hawai'i Governor Linda Lingle at the governor's residence. Afterwards, the explorer participated in the beachside videotaping of an interview and a public service announcement. Reserve Communications Specialist Naomi Sodemani received superb and gracious assistance from NOS Ocean Media Center Producer/Director John Brooks, happened to be in town on another assignment to shoot footage for an educational video for the Maritime Heritage Program.

Olympic Coast NMS

Olympic Coast National Marine Sanctuary just completed a successful archaeology field school and excavation of a paleoshoreline site in cooperation with the Makah Tribal Historic Preservation Office and the Makah Cultural and Research Center at Neah Bay. The site is a 3,000+ year-old shell midden located on a forested terrace above the Waatch River, approximately 2 miles from the modern coastline. The site appears to have been a year-round village, occupied at a time when sea level was 10-15 meters higher than present. Fourteen archaeology students from Pacific Lutheran University and Peninsula College participated in all phases of the excavation and lab conservation work. Two students are Makah tribal members. The project consisted of a 2-meter square test pit excavated to a depth of 2.7 meters. Faunal remains included fish, shellfish, marine mammal, bird and terrestrial mammal. Artifacts included slate knives, bone points, chipped stone points, whetstones, shell beads and many chipped stone flakes. Excavated shell and fishbone indicate a nearby estuary or sheltered passage—a habitat complex dramatically different from today's. Full analysis of the samples including radiocarbon dates and a report will be available in early 2006. The project was funded by the National Marine Sanctuaries Maritime Heritage Minigrant program.

Stellwagen Bank NMS

On July 10, two 45-minute live video broadcasts were sent from the wreck of the steamship Portland in SBNMS to viewers at the Pilgrim Monument and Provincetown Museum in Provincetown, MA and onto the World Wide Web. The broadcasts gave viewers a live tour of the Portland via the Hela ROV (remotely operated vehicle), which was deployed by researchers from the National Undersea Research Center for the North Atlantic and Great Lakes (NURC NA&GL) at the University of Connecticut from the research vessel RV Connecticut. The ROV tour of the wreck was narrated by researchers from the sanctuary and NURC, who were able to answer questions posed by members of the Provincetown audience via an e-mail line.

Thunder Bay NMS and Underwater Preserve

Thunder Bay National Marine Sanctuary & Underwater Preserve hosted the 5th Annual Thunder Bay Maritime Festival on July 4th in Alpena. The festival included tours of the tall ships Friends Good Will, Appledore V, and the Madeline, along with entertainment, children's activities, a family boat building project, and the sanctuary's shipwreck exhibit and film. The Maritime Festival was a big success this year, with over 6,000 people in attendance. The event which is part of Thunder Bay NMS&UP's education and outreach program, provides an opportunity for the public to learn about the remarkable collection of shipwrecks and underwater relics that inspired the designation of Thunder Bay as a national marine sanctuary.



MONTEREY BAY NATIONAL MARINE SANCTUARY NEWS AND PROGRAM UPDATES



JOINT MANAGEMENT PLAN REVIEW

MBNMS staff are continuing to prepare the draft management plan and draft environmental impact statement for clearance through NOAA. While most of the work on the management plan itself has been completed, staff continues to work on regulatory issues and the subsequent analysis as required by the National Environmental Policy Act (NEPA), Administrative Procedures Act (APA) and the Regulatory Flexibility Act. MBNMS and other Joint Management Plan Review staff are working with TetraTech, the NEPA contractor, to complete the analysis of proposed regulatory modifications. All regulatory related decisions have been made at this time so that the required analysis can be completed and submitted for clearance. The clearance, printing and distribution process is expected to take approximately four months.

If you have questions regarding the management plan review, please contact Sean Morton at (831) 647-4217 or sean.morton@noaa.gov.

MANAGEMENT

Karen Grimmer, Program Operations Coordinator, has recently completed a Memorandum of Agreement with the United States Coast Guard regarding the construction of a NOAA floating dock at the US Coast Guard pier in Monterey. The new dock will berth the *R/V Fulmar* when delivered in 2006. For more information, contact Karen Grimmer at (831) 647-4253.

On July 21 and July 22, MBNMS Superintendent Bill Douros represented the four California national marine sanctuaries on the California Biodiversity Council at their meeting in Long Beach. The meeting focused on the economic value of oceans and coasts to California and the nation's economy. For more information, contact Bill Douros at (831) 647-4258.

From July 20-30, Michelle Templeton joined NMSP and NOS staff in a NOAA information gathering mission to Ecuador and the Galapagos islands. The goal of the trip was to better understand the socioeconomic, political and biological issues contributing to the ecosystem management challenges facing the Galapagos in order to determine what role NOAA might play in supporting marine protection. The team met with over 25 groups including national and local government agencies, tourism operators, fishing cooperatives, research stations, women's entrepreneurial cooperatives, international non-profits, National Parks and navy. Over the next few weeks the team will be developing recommendations for how NOAA can collaborate with Ecuadorian groups in working toward a solution to the complex and conflicted issues related to marine reserves in the Galapagos. For more information, contact Michelle Templeton at (831) 647-4211.

On July 25, Rachel Saunders, Community and Public Relations Coordinator, distributed a NOAA press release and supporting information to local and regional media on the NOAA CSCAPE (Collaborative Survey of Cetacean Abundance and Pelagic Ecosystem) cruise. The National Marine Sanctuary Program has partnered with NOAA Fisheries to help promote and support the CSCAPE large-scale monitoring initiative. To assist in this year's CSCAPE effort, the MBNMS provided funds, ship time and personnel to support the survey work and include our west coast sanctuaries as a key focal point for assessment. Information on the CSCAPE survey has been included on the MBNMS Integrated Monitoring Network (SIMoN) web site. For more information, contact Rachel Saunders at (831) 647-4237 or Sarah Marquis, West Coast Media Coordinator at (949) 222-2212.

On July 27 and 28, Karen Grimmer from MBNMS and Kate Peet from CINMS represented the West Coast sanctuaries in the NOS Small Boat Committee Meeting hosted by Stellwagen Bank NMS. The newly formed committee focused on revising the NOS Vessel Policy for Small Boats through member presentations and discussions on topics such as medical screening, operator qualifications, manning and safety requirements. The revised policy will be vetted through all sites for input and then formally approved for implementation by NOS. In addition to vessel policy, the group discussed the new vessel maintenance database, inspection requirements and the upcoming NOAA operator training which is being offered as a pilot course in August. For more information, contact Karen Grimmer at (831) 647-4253.

On August 4, MBNMS staff conducted training dives at Point Lobos. Karen Grimmer, Jean de Marignac and Steve Lonhart dove in Whaler's Cove as part of their required monthly diving. Over 100 underwater photos were taken, many of which will be added to the growing photo database, and eventually feed into the on-line species database. For more information, contact Steve Lonhart at (831) 647-4222.

On August 2, Rachel Saunders gave a presentation to the Santa Cruz Chapter of the Surfrider Foundation. The presentation provided an overview of the MBNMS and then focused on the Joint Management Review Process and key MBNMS issues. For more information, contact Rachel Saunders at (831) 647-4237.

On August 3, MBNMS Superintendent Bill Douros and MBNMS Water Quality Protection Program Coordinator Chris Coburn participated in a radio interview show "Talk of the Bay" on KUSP radio, Santa Cruz (the NPR affiliate). The first half hour focused on marine protected areas with Bill and additional guest Kaitilin Gaffney of the Ocean Conservancy; the second half hour focused on sanctuary water quality with Chris and additional guest Tamara Doan of the Coastal Watershed Council. For more information, contact Rachel Saunders at (831) 647-4237.

On August 21, Michelle Templeton met with Ecuadorian USAID representative, Rocío Sedeño, as a follow up to NOAA's information gathering mission in the Galapagos. The briefing included a review of the top areas of need for effective management of the Galapagos Marine Reserve based on the July, NOAA visit to Ecuador and a discussion of next steps. For more information, contact Michelle Templeton at (831) 647-4211.

On August 22, Emily Woglom, Office of Management and Budget examiner, visited the MBNMS. She met with Bill Douros to receive an overview briefing on the MBNMS, a summary of key issues facing the sanctuary, and highlights of key programs where success can clearly be measured such as the water quality protection programs. She asked for and received a briefing on monitoring in the MBNMS, which covered the LiMPETS program (student tidepool monitoring), Citizen Watershed Monitoring Network (volunteers monitoring local waters) and the Sanctuary Integrated Monitoring Network. On the SIMoN presentation in particular, she remarked that it offered a good deal that IOOS programs to date have not included such as monitoring biological resources and an attractive public interface via the SIMoN website. Bill took her on a kayak tour off Cannery Row that afternoon. She asked a great deal of questions about the MBNMS and NMSP in general. For more information, contact Bill Douros at (831) 647-4201.

On August 23, Karen Grimmer attended the HQ coordinated vessel flip and roll event in Bellingham, WA at All American Marine. Two of the three new vessels are currently being built and the third, the 66ft Fulmar is due to begin construction in December. The event turned out the major, two port commissioners, three congressional staffers, and reps from FK and SB national marine sanctuaries. In addition, NOAA official, Tim Keeney spoke and commended the boat yard and the NMSP for developing such an important collaboration. For more information, contact Karen Grimmer at (831) 647-4253.

During the week of August 22, MBNMS staff hosted Dr. Seong Hwan Pae from the Korea Research and Development Institute. He met with key staff in research, resource protection, education and had a focused session on the management plan process. Dr. Pae participated in a boat tour on Monterey Bay and another one in Elkhorn Slough. After participating in a joint NMSP and NCCOS workshop, he also toured some local research institutions and visited the MBNMS office in Cambria. The Sanctuary program has a history of collaborations with marine management agencies in Korea, and open communications are facilitating global scale ocean protection. For more information, contact Andrew DeVogelaere at (831) 647-4213.

August 25 and 26, Karen Grimmer attended a Contracting Officer's Representative training course hosted by CINMS. For more information, contact Karen Grimmer at (831) 647-4253.

On September 7, Rachel Saunders represented the MBNMS on "Your Town," an Access Monterey Peninsula (AMP) TV show (Channel 24). AMP is the local community access TV network. During the program Rachel explained the who, what, where, when and why of the MBNMS. The show is seen by residents of the City of Monterey. For more information, contact Rachel Saunders at (831) 647-4237.

RESEARCH AND MONITORING

On July 9, as part of the Great Annual Fish Count events, MBNMS hosted an advanced fish identification seminar from 4pm to 7:30pm. The presenters included Tom Laidig with NMFS, who gave an in depth account of juvenile rockfish in the Monterey area including their preferred habitat, seasonality and trends over the past few years. In addition, Kawika Chetron and Clinton Bauder, two divers averaging

200 dives per year, each gave an informative and entertaining presentation on the rarer fish sightings or "The Less Usual Suspects." Also attending were the two State MLPA non-consumptive dive reps, who briefed the group of fifteen people on this week's MLPA meeting discussions. For more information, contact Karen Grimmer at (831) 647-4253.

On July 18, eight MBNMS staff members participated in the removal of *Undaria* from the Monterey Harbor. Staff removed over 100 pounds (wet weight) of *Undaria* and measured over 500 individuals. For more information, contact Steve Lonhart at (831) 647-4222.

On July 21, MBNMS co-hosted a meeting with MARINe (Multi-Agency Rocky Intertidal Network) at the Sanctuary office. Managers and scientists from federal, state, and local government agencies, universities, and private and volunteer organizations formed the MARINe (<http://www.marine.gov/>) in 1997 to monitor important shoreline resources in southern California. Since then MARINe has successfully standardized protocols, carried out semi-annual monitoring surveys at 55 permanent sites in southern and central California and developed a centralized database. MARINe is expanding the rocky intertidal monitoring network to all of California. The purpose of this meeting was to explore opportunities to coordinate rocky shore resource monitoring efforts for mutual benefit. Topics included resource management goals, cooperative or coordinated surveys, mutual funding opportunities, information needed prior to environmental impacts, regional analyses, and useful publications, such as "State of the Shoreline" reports. For more information, contact Steve Lonhart at (831) 647-4222.

On July 22, MBNMS staff met with principal investigators conducting a study on the ecological effects of the thermal outfall associated with Moss Landing Power Plant, owned and operated by Duke Energy. The plant recently underwent an upgrade, which increased cooling water volume but reduced the temperature differential. Researchers presented their findings to date, which covered two years of the three year study. For more information, contact Steve Lonhart at (831) 647-4222.

On July 25, MBNMS staff presented the Sanctuary Integrated Monitoring Network (SIMoN) to a group of 11 high school teachers enrolled in a summer enrichment program at Moss Landing Marine Laboratories. Dr. Simona Bartl leads the program, which provides teachers with hands-on experience and materials for course curricula focused on marine education. Staff provided an overview of the MBNMS, SIMoN, and some of the GIS tools available through the SIMoN website. For more information, contact Steve Lonhart at (831) 647-4222.

On July 26, MBNMS staff assisted staff and volunteers from the Elkhorn Slough National Estuarine Research Reserve (ESNERR) with a monitoring program designed to erosion of mud banks within the Slough. Over the past 200 yrs, the Slough has undergone dramatic changes in its hydrology and use by humans. Recently, the Slough has moved into an erosional state, with a net loss of fine sediments moving towards the mouth of the Monterey Canyon. This has, in turn, affected native salt marsh flats and mud pans, both of which serve important feeding areas for resident and migratory birds. For more information, contact Steve Lonhart at (831) 647-4222.

Erica Burton, Research Specialist, co-authored a recent paper with Andrews et al., "Bomb radiocarbon and lead-radium disequilibria in otoliths of bocaccio rockfish (*Sebastes paucispinis*): a determination of age and longevity for a difficult-to-age fish." It is published in Marine and Freshwater Research, Volume 56. For more information, contact Erica Burton at (831) 647-4246.

On July 21, MBNMS staff met with Dave Foley of the Pacific Fisheries Environmental Laboratory (PFEL) to discuss PFEL's on-going use of the oceanObs information management system built by SIMoN. This system provides access to summary information on ocean observatory projects. For more information, contact Josh Pederson at (831) 647-4260.

The Elkhorn Slough National Estuarine Research Reserve is embarking on a management plan update process. They have hired Robert Mazurek (also a board member for the Monterey Bay Sanctuary Foundation) to lead the process. Robert has met with Sean Morton, MBNMS Management Plan Coordinator, to learn from MBNMS experiences, and Andrew DeVogelaere provided comments on initial process decisions and findings at the July 19 Elkhorn Slough Reserve Advisory Committee. For more information, contact Andrew DeVogelaere at (831) 647-4213.

MBNMS staff met with Brian Johnson (GFNMS) to continue implementing SIMoN expansion to the Gulf of the Farallones and Cordell Bank National Marine Sanctuaries. One aspect of the expansion will be a SIMoN program introduction and Research Vessel FULMAR briefing to northern and central California researchers in a workshop format at Bodega Marine Laboratory on October 20. For more information, contact Andrew DeVogelaere at (831) 647-4213.

Josh Pederson presented the MBNMS data management website to NODC management, which is considering using this system for data management of the IOOS network. Josh also completed a document that details the contributions made by SIMoN to the Integrated Ocean Observing System (IOOS). These contributions include: technical development of an information management system for IOOS,

providing the SIMoN website as a data discovery tool for IOOS, providing IOOS-compatible NMSP data, inventorying biological monitoring information, and advising central California ocean observing programs. This document was requested by NMSP headquarters to continue national program links with IOOS. For more information, contact Josh Pederson at (831) 647-4260.

On August 1, Chad King gave one of four National Marine Sanctuary presentations at the annual Society for Conservation GIS meeting in Monterey, CA. The series of four talks were presented in succession and showcased how GIS has been applied to Sanctuary program research. For more information, contact Chad King at (831) 647-4248.

From July 25-29, Chad King attended the 25th annual Environmental System Research Institute (ESRI) user conference in San Diego, CA. ESRI creates the world's most popular GIS software, and approximately 13,000 users worldwide attended this year's conference. For more information, contact Chad King at (831) 647-4248.

MBNMS staff completed an August reconnaissance for the invasive Asian kelp *Undaria pinnatifida* near Wharf #1 in Monterey Harbor. Staff had been alerted about expansion of the invader into a new part of the harbor. Divers located one detached, but mature, individual at the site. Further investigation in the area revealed several other adult *Undaria*. However, most surprisingly was the tremendous growth of another invader on the pier pilings: the Asian bryozoan *Watersipora subtorquata* covers almost all pilings under Wharf #1, smothering all native invertebrates and algae. This invader is rapidly expanding, and has already spread to Hopkins Marine Life Refuge. For more information, contact Steve Lonhart at (831) 647-4222.

MBNMS staff has two publications in the just released book, "California and the World Ocean '02: Revisiting and Revising California's Ocean Agenda" published by the American Society of Civil Engineers:

- Exploring the Davidson Seamount: combining science, public outreach, and resource management. By A. DeVogelaere, R. Kochevar, M. Tamburri, G. Cailliet, E. Burton, S. Benson, and W. Douros.

- Ocean observing and modeling system developments around Monterey Bay. By J. Paduan, S. enson, K. Bruland, F. Chavez, D. Costa, D. Croll, A. DeVogelaere, C. Edwards, G. Griggs, C. King, R. Kudela, J. Harvey, B. Lipphardt, S. Lonhart, P. Mantey, B. Marinovic, M. McManus, L. Rosenfeld, M. Silver, and J. Vesecky.

For more information, contact Andrew DeVogelaere at (831) 647-4213.

The Research Activity Panel met on August 12, at the Monterey Bay Aquarium to address: agriculture drainage discharge into nearshore marine waters; opportunities for science guidance on Sanctuary permit issues; the Monterey Accelerated Research System Cabled Observatory EIR/EIS; and the Monterey Bay Aquarium's new white shark conservation research initiative. For more information, contact Andrew DeVogelaere at (831) 647-4213.

MBNMS staff recently added 250 new images to the SIMoN photo database. These images include: birds, beaches (including warning signs), streams, watersheds, agriculture, fishing and recreational boats, marine mammals, coastal armoring, and seascapes. This database is used by MBNMS staff and will soon be accessible to the public on the SIMoN web site. For more information, contact Josh Pederson at (831) 647-4260.

On August 10, Josh Pederson presented the oceanObs information management system to Marie Colton, NOS Technical Director, and Kurt Schnebele, Director of the National Oceanographic Data Center (NODC). This presentation focused on the utility of the system in describing ocean observatory projects with associated summary data, and its potential as a model for all regions of the Integrated Ocean Observing System (IOOS). oceanObs was developed for the Central and Northern California Ocean Observing System (CeNCOOS) by SIMoN. For more information, contact Josh Pederson at (831) 647-4260.

On August 23 and 24, sanctuary staff from around the nation met at the National Center for Coastal Ocean Science (NCCOS) Director's Retreat in Monterey. These two days of the week-long retreat were focused on strengthening the partnership between NCCOS and the sanctuary program. A major objective of NCCOS is to provide applied research capabilities towards NOAA resource management efforts. The NCCOS staff were clearly oriented towards sanctuary programmatic and performance goals. Sanctuary staff will follow up with a booklet of "one pagers" that outline resource management issues, science needs, potential partners, and expected management actions given new research information (a relatively simple task for MBNMS because this information has been compiled in the management plan update process). This workshop effectively strengthened the collaboration between NCCOS and the sanctuary program. For more information, contact Andrew DeVogelaere at (831) 647-4213.

On August 17 and 18, staff attended training dives with researchers from the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO). Due to the late arrival of young-of-the-year (YOY) rockfishes in central California, these extra dives were scheduled to identify and count the YOY. PISCO has established a long-term, large-scale monitoring program throughout the western US, and has partnered with MBNMS staff to conduct subtidal and intertidal monitoring throughout the Sanctuary. For more information, contact Steve Lonhart at (831) 647-4222.

On August 19 and 22, staff assisted researchers at the Elkhorn Slough National Estuarine Research Reserve (ESNERR). Fishes were collected using a hand-dragged seine net at several locations in the Reserve and on land owned by the Packard family. All fishes and crabs were collected, counted, measured and released. These data are being used to assess fish and crab community diversity at sites with high, moderate, and muted tidal flow. Additional sampling and analyses are being funded by the Sanctuary Integrated Monitoring Network (SIMoN) and will inform the Tidal Wetlands Restoration Plan, which will guide ESNERR management for the next decade. For more information, contact Steve Lonhart at (831) 647-4222.

On August 23, staff attended a scientific presentation entitled "Sea otter diets provide food for thought: investigating nutritional constraints on the California sea otter population" by Drs. Tim Tinker and Kathy Ralls at the Monterey Bay Aquarium. Dr. Ralls and her colleagues received funding from the Sanctuary Integrated Monitoring Network (SIMoN) to evaluate the nutritional and caloric value of prey typically consumed by sea otters. Although the study is in progress, their preliminary results suggest that many prey items may be high in caloric value but may not meet nutritional requirements, such as essential minerals or vitamins. Analyses will be completed in early 2006 and a final report will be due May 2006. For more information, contact Steve Lonhart at (831) 647-4222.

On August 24, staff met with Dr. Mark Carr and Kristin Kusic to discuss analyses and report preparation for the marine biological surveys conducted along the Big Sur coast. The Sanctuary and the California Coastal Commission are working closely with the California Department of Transportation (CalTrans) and several other local, state, and federal agencies to develop a Corridor Management Plan along the Big Sur Coast. Highway 1 in Big Sur is often subject to delays and closures due to storms, washouts, and landslides. The purpose of the Big Sur Coast Highway Management Plan (CHMP) is to develop sustainable strategies that ensure the safe and efficient operation of the highway while protecting the unique qualities and sensitive terrestrial and marine resources of this remarkable coastline. The final report will be used to evaluate intertidal and subtidal resources that could be impacted by landslides and highway maintenance activities. For more information, contact Steve Lonhart at (831) 647-4222.

On August 26, staff met with Dr. Jeff Paduan (Navy Postgraduate School) and Rondi Robison (Center for Integrated Marine Technologies at UC Santa Cruz) to discuss recent efforts by the Central and Northern Coastal Ocean Observing System (CeNCOOS) end-user committee (EUC). Potential end users were surveyed by the EUC, and among the high-ranking product requests was a real-time depiction of nearshore surface currents. Paduan will work with staff and the EUC to modify an existing surface current model of Monterey Bay to ensure ease of use and to develop a short list of dynamically generated products. As other HF radar sites are installed along the coast of California, this same interface will be used to access the data products. For more information, contact Steve Lonhart at (831) 647-4222.

RESOURCE PROTECTION

Deirdre Hall participated in the final round of conference calls with the California State Lands Agency and the consultant, Aspen Environmental, to ensure that the final camera-ready Admin Final EIR/EIS document for the Monterey Bay Aquarium Research Institute's MARS Cabled Observatory met both agencies needs. MBNMS staff provided comments on and reviewed this document, which was delivered to HQ on July 5th and is now undergoing final HQ review, and being ushered through the "Spinrad Clearance" process. For more information contact Deirdre Hall at 831-647-4207

On July 7 and 8, Huff McGonigal participated on the regional stakeholder group associated with California's efforts to designate MPAs in the state waters on the central coast pursuant to the Marine Life Protection Act (MLPA). The meeting was held in Morro Bay and topics discussed included the contents of a regional profile describing the study area, its resources and uses, and goal and objective setting. Proposals for MPAs are scheduled to be forwarded to the California Fish and Game Commission in spring of 2006. For more information, contact Huff McGonigal at (831) 647-425.

On July 13, the MBNMS hosted a meeting with potential principal investigators to discuss the scope, methodologies, and funding sources for a study examining recovery rates in benthic habitats associated with the removal of bottom trawling impacts. For more information, contact Huff McGonigal at (831) 647-4254.

The Final Environmental Impact Report/Environmental Impact Statement prepared for the consideration of a new lease by the California State Lands Commission (CSLC) and a Research Permit by the Monterey Bay National Marine Sanctuary (MBNMS) for Monterey Bay Aquarium Research Institute's MARS Cable is now available. This EIR/EIS addresses the potential environmental effects of the Proposed Project and two alternative landing sites for the cable as well as the No Project/ Action Alternative. The MBNMS will use this document in its decision on whether to issue a Research Permit for the proposed project. The MBNMS will circulate this document for at least 30 days prior to making a decision on the proposed project. This document is available on the MBNMS website at: <http://montereybay.noaa.gov/> For more information, contact Deirdre Hall at (831) 647-4207.

On July 28, Deirdre Hall and Bill Douros met with James Walsh, attorney representing the Alliance of Communities for Sustainable Fishing, and Kathy Fosmark, ACSF President to discuss their frustration with the negotiation process with the Monterey Bay Aquarium Research Institute in coming to a mutual agreement for reimbursement provisions for potential fishing gear snags as it relates to the MARS cable project. For more information, contact Deirdre Hall at (831) 647-4207.

On July 29, the sanctuary hosted a special meeting of the Southern Monterey Bay Coastal Erosion and Armoring Workgroup. The meeting included a presentation about a shoreline protection technology called Pressure Equalizing Modules (PEM), by Kenneth Christensen of Ecoshore International. PEMs are independent permeable drain tubes installed vertically into the beach that cause beach sand to accumulate under optimal conditions. The City of Monterey, in collaboration with the MBNMS and Dr. Ed Thornton of the Naval Postgraduate School, are considering conducting a pilot study to assess the effectiveness and potential environmental impacts of PEMs along Del Monte Beach in Monterey. For more information, contact Brad Damitz at (831) 647-4252.

The State Lands Commission unanimously approved a lease for the MARS research cable on Aug 8, 2005. No testimony was made in opposition to the project. The MBNMS will consider MBARI's permit requests for this project by approximately the end of August. For more information, contact Deirdre Hall at (831) 647-4207.

Holly Price represented the MBNMS at a two-day meeting of the Regional Stakeholder Group for the state's Marine Life Protection Act process to develop additional MPAs in state waters. The group reviewed and commented on a regional characterization of state waters and reached agreement on a number of detailed objectives for MPAs to be considered during the design process. A number of contentious issues remain before the draft objectives are finalized, including discussions of the need for nearshore locations which are accessible to divers and researchers. For more information, contact Holly Price at (831) 647-4247.

On August 17 and 18, MBNMS staff met with representatives from I.M Systems group to discuss the ongoing development of a computer based tool designed to assist with the Sanctuary's evaluation and design of marine protected areas. The tool is being developed through a partnership between the Sanctuary, the State of California, and NOAA's MPA center and will play a key role in both the Sanctuary MPA process and in California's Marine Life Protection Act Initiative. It will allow working groups to design MPA alternatives and compare and contrast them with others by allowing a user to dynamically select which characteristics are of interest. It is expected to first be used by the Sanctuary MPA working group at the next meeting on September 14th. For more information, contact Huff McGonigal at (831) 647-4254.

Sanctuary staff participated in the state's Marine Life Protection Act Regional Stakeholder Group on Sept. 7th and 8th in Cambria. The group finalized a detailed list of objectives to be met when designing MPAs in state waters on the Central Coast, including throughout the Sanctuary south of Pigeon Point. For more information, contact Holly Price at (831) 647-4247.

Water Quality

On July 11, Bridget Hoover, Sanctuary Citizen Watershed Monitoring Network Coordinator, participated in a sediment monitoring training in the Santa Cruz mountains provided by the consulting firm of Balance Hydrologic. For more information, contact Bridget Hoover at (831) 883-9303.

On July 15, Bridget Hoover gave a presentation about Sanctuary monitoring programs at a water quality monitoring workshop in Morro Bay in collaboration with the Morro Bay Volunteer Monitoring Program. For more information, contact Bridget Hoover at (831) 883-9303.

On July 20, Donna Meyers, West Coast Regional Water Quality Coordinator and Bridget Hoover attended the California Nonpoint Source Monitoring and Tracking Council meeting in Sacramento. The Council was established by the State Water Resources Control Board, California Coastal Commission, and Environmental Protection Agency to promote communication and coordination of water quality monitoring efforts in the state. For more information, contact Donna Meyers at (831) 420-1609 or Bridget Hoover at (831) 883-9303.

On July 20, Bridget Dobrowski, Agriculture Water Quality Coordinator, gave a presentation on the Agriculture Water Quality Alliance and the MBNMS Agriculture and Rural Lands Plan to 17 ranchers in Gilroy, as part of the Ranch Water Quality Planning Short Course. For more information, contact Bridget Dobrowski at (831) 647-4219.

On July 21, Bridget Hoover and Bridget Dobrowski attended the Water Quality and Environmental Health workshop sponsored by the Association of Monterey Bay Area Governments and the Central Coast Joint Data Committee at Moss Landing Marine Labs. For more information, contact Bridget Hoover at (831) 883-9303.

On July 28, Bridget Hoover hosted an informational meeting at Salinas City Hall for the new water quality monitoring program beginning in August. The meeting was attended by local citizens and staff from the City of Salinas Public Works Department, as well as the Monterey County Farm Bureau Water Quality Coordinator and one local grower. The monitoring training for the volunteers will be on Saturday, August 6th at the same location. For more information, contact Bridget Hoover at (831) 883-9303.

On August 6, Bridget Hoover conducted a training for the new Salinas Clean Streams program. Eleven volunteers attended and will begin monitoring water quality in Santa Rita Creek and the Reclamation Ditch once a month for the next 18 months. This program is funded through a grant from the Community Foundation of Monterey County. For more information contact Bridget Hoover at (831) 883-9303.

On August 19, Bridget Dobrowski and Chris Coburn, Water Quality Protection Program Director, participated in a planning meeting for the Farm Water Quality Short Courses. The Short Courses are given by UC Cooperative Extension and the USDA Natural Resources Conservation Service, in partnership with the MBNMS and many others throughout the central coast. The courses provide farmers and ranchers 15 hours of water quality education. Over 40 people were involved with the planning meeting and the next 31 courses to be offered over 16 months were discussed. For more information, contact Bridget Dobrowski at (831) 647-4219.

On August 22, volunteers in the Pacific Grove Urban Watch program observed excessive amounts of sediment flowing from an outfall. It was obvious the discharge had been occurring for several days due to the amount of sediment, and the water flowing from the pipe was brown in color. The volunteers went upstream looking for a potential source. Approximately one half mile upstream, a construction site for a new house was observed with a lot of sediment piled up along the curb and water running through it. The City of Pacific Grove was notified and they sent an inspector out. The water from the outfall has since been running clear and the street in front of the house is free of sediment. For more information, contact Bridget Hoover at (831) 883-9303.

On August 29, Bridget Hoover gave a presentation about the sanctuary and water quality monitoring to two Chemistry classes at the Monterey Academy of Oceanographic Science at Monterey High School. For more information, contact Bridget Hoover at (831) 883-9303.

On August 31, Chris Coburn provided public comments regarding Areas of Special Biological Significance (ASBS) at a workshop hosted by the State Water Resources Control Board (SWRCB). Statewide, the SWRCB recently identified over 1,600 prohibited discharges into ASBSs. Chris's comments highlighted the fact that urban runoff is an issue affecting all coastal areas, and not just ASBSs, and that focusing only on ASBSs is preventing solutions to the larger urban runoff issue. For more information, contact Chris Coburn at (831) 420-1670.

On September 6, Bridget Dobrowski met with representatives from the Monterey County Farm Bureau, San Luis Obispo Farm Bureau and the Upper Salinas-Las Tablas Resource Conservation District to discuss collaborating on an Agriculture Management Handbook. This project will expand on one handbook that has already been developed, cross reference other handbooks that have been developed by other partners, and include a resource directory. The final product should help farmers understand conservation practices and provide them with the resources needed to implement those practices. For more information, contact Bridget Dobrowski at (831) 647-4219.

On September 7 and 8, Donna Meyers attended the Plastics Rivers to Sea Conference in Redondo Beach. Sessions focused on the transport of land-based sources of plastics entering the ocean and nearshore areas and included discussions on monitoring and research needs, impact to wildlife and habitat, public education, and outreach and regulatory controls such as TMDL's and stormwater permits. The conference had over 250 attendees and included presenters from Brazil, Australia, the United Kingdom and New Zealand. The conference pointed to the fact that plastics pollution has become a global problem in all oceans on the planet. For more information, contact Donna Meyers at (831) 420-1609.

On September 8, Bridget Hoover gave a presentation to high school RISE students at the Boys and Girls Club in Salinas. This group of students will be conducting monthly water quality monitoring on the Salinas River for the next 10 months. For more information, contact Bridget Hoover at (831) 883-9303.

On September 9, Bridget Hoover and Chris Coburn met with Ray Arnold, Vice-President of the Copper Development Association, to review the results to date from the copper/zinc monitoring being conducted in a Monterey drainage (funded by SIMoN). Potential sources have yet to be determined, yet very high concentrations of copper and zinc continue to be detected throughout the drainage. For more information, contact Bridget Hoover at (831) 883-9303.

On September 10, Bridget Hoover conducted the first official monitoring with volunteers in the Santa Rita creek drainage in Salinas. Nine sites will be monitored monthly for the next 17 months to compare urban and agricultural impacts on Santa Rita Creek. For more information, contact Bridget Hoover at (831) 883-9303.

Desalination

On July 20, Brad Damitz, Environmental Policy Specialist, attended a meeting regarding the release of a Proponent's Environmental Assessment (PEA) for CalAm Water Company's proposed desalination plant in Moss Landing. This initial environmental documentation for the proposed 10 million gallon per day facility will form the basis for an EIR that will be released upon initiation of the CEQA process. The MBNMS is currently reviewing the PEA and associated reports. For more information, contact Brad Damitz at (831) 647-4252.

On July 28, Brad Damitz met with Greg Bourne from the Center for Collaborative Policy, to discuss potential opportunities for collaboration in the development of the State of California's Desalination Planning Handbook, and the implementation of the MBNMS Desalination Action Plan, including guidelines and recommendations for desalination plants within the sanctuary. For more information, contact Brad Damitz at (831) 647-4252.

On August 4, Brad Damitz met with Patrick Rutten, Joe Dillon, and Joyce Ambrosius of the National Marine Fisheries Service (NMFS) in Santa Rosa. The purpose of the meeting was to discuss recent desalination plant proposals along California's central coast, and to get NMFS input on the development of guidelines and recommendations for desalination plants in the MBNMS. For more information, contact Brad Damitz at (831) 647-4252.

Enforcement

On June 30, the National Marine Fisheries Service (NMFS) issued a one-year Incidental Harassment Authorization to the MBNMS allowing disturbance of certain protected species incidental to fireworks displays authorized by the Sanctuary. On June 22, the US Fish and Wildlife Service issued a Biological Opinion allowing similar incidental disturbance to species protected under the Endangered Species Act. The MBNMS pursued these authorizations instead of requiring multiple separate review actions by cities and other fireworks sponsors within the Sanctuary. NMFS will coordinate with the MBNMS in the coming months to prepare a 5-year rule to extend the authorization period. NMFS will take the lead on drafting a programmatic NEPA review for MBNMS' fireworks permitting activity, building upon the Environmental Assessment they completed for the IHA. For more information, contact Scott Kathey at (831) 647-4251.

On June 28, Officer Bob Yerena accompanied units of Coast Guard Station Monterey during weapons live fire exercises within the MBNMS. Officer Yerena reported that the Coast Guard carefully implemented the guidance provided by the Sanctuary to avoid incidental harm to marine life in the exercise area. The MBNMS previously provided training to the station in marine life detection and protective protocols. The MBNMS will provide refresher training to the Coast Guard prior to future weapons exercises. For more information, contact Bob Yerena at (831) 647-4203.

On July 8, Officer Bob Yerena observed two hovercraft operating in Elkhorn Slough. Contractors for the US EPA were operating the vessels while collecting sediment samples and placing buoy markers in the main channel. The researchers did not have an MBNMS permit for operating the MPWC, collecting samples, or placing buoys. Officer Yerena instructed the researchers to cease all operations, remove the buoys, and contact MBNMS staff to apply for authorization to conduct the work.

On July 7, US Fish and Wildlife Service biologists observed a low-flying helicopter flush common murrelets from the nesting colony at Castle Rocks along the Big Sur coast. The biologists recorded the tail number of the craft. NOAA OLE is investigating the incident.

On July 7, a 75-foot commercial mid water trawl vessel reportedly captured a 30-40 foot bluish/gray colored whale in its net within Monterey Bay. NOAA OLE investigated the incident, but discovered no evidence to verify the report.

On July 3, witnesses in Moss Landing Harbor reported a man deliberately running a small boat onto the beach in an attempt to ram sea lions hauled out at that location. NOAA OLE is investigating the incident.

On or about June 28, a helicopter passed over Ano Nuevo Island at low altitude and flushed a large number of seabirds. NOAA OLE is investigating the incident.

On July 22, US Fish and Wildlife Service biologists observed a C-130 aircraft flush over 100 common murrelets from a nearshore colony site during an extremely low pass along the shoreline. Officer Bob Yerena (NOAA OLE) used witness information and identified the plane as a CA Air National Guard aircraft. Officer Yerena has been in contact with the wing commander who investigated the incident and took corrective action. For more information, contact Bob Yerena at (831) 647-4203.

On July 29, Scott Kathey attended the bi-monthly Central Coast Oil Spill Area Committee Meeting and learned that the Department of Commerce will join as a signatory to a multi-agency Historic Properties Programmatic Agreement that implements safeguards for historic properties during oil spill response actions. DOC is joining this existing agreement due to the significance of marine sanctuary trustee responsibilities for marine cultural and historic resources. For more information, contact Scott Kathey at (831) 647-4201.

On July 12, an agreement was finalized between the Monterey Bay Sanctuary Foundation and the California Department of Parks and Recreation to provide enforcement support to the MBNMS in the Big Sur and Cambria areas through June 2007. For more information, contact Scott Kathey at (831) 647-4201.

The Monterey Bay Sanctuary Foundation has signed and submitted an agreement to the California Department of Fish and Game (CDFG) that will provide enforcement services to the MBNMS through June 2008 once approved and signed by the CDFG. For more information, contact Scott Kathey at (831) 647-4201.

On July 19, Scott Kathey participated in an ROV camera survey of the sunken *M/V ALBION* located two miles off Monterey Harbor. The vessel was upright, intact, and unburied. Over one hour of digital video of the wreck site was recorded. A second hour of video was obtained on July 22. MBNMS has informed the Coast Guard and CA OSPR that it supports leaving any onboard fuel in the tanks and raising the vessel and fuel together. Salvage could begin in October funded by insurance companies. For more information, contact Scott Kathey at (831) 647-4201.

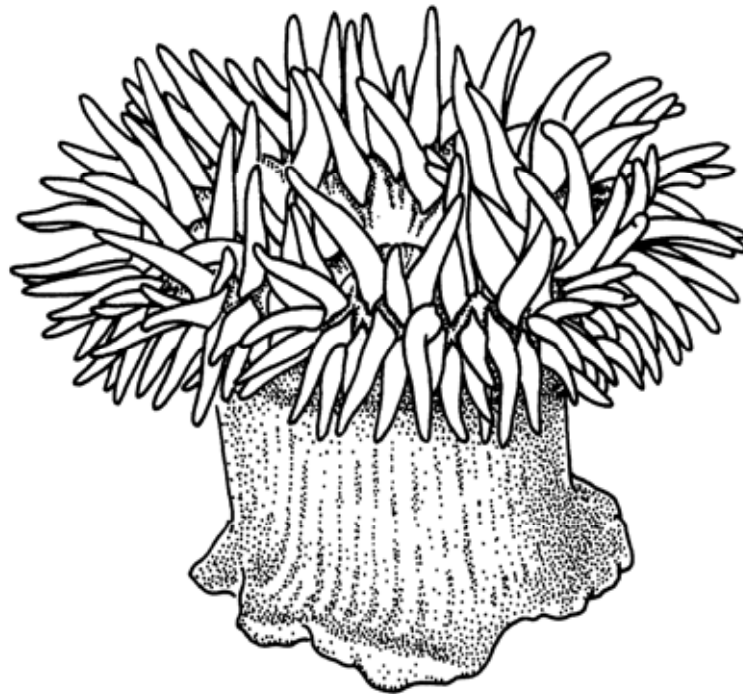
During the past six months, increased reports of oiled cormorants in northern Monterey Bay resulted in the discovery that a large cement barge intentionally sunk off Seacliff State Beach decades ago to form part of a recreational pier is leaking oil. The barge (formerly the PALO ALTO) is approximately 200 feet long and is positioned approximately 400 yards offshore in a state of accelerated deterioration. It has parted into two sections and has a labyrinth of exposed steel rebar protruding from failed decks and bulkheads. Many cormorants and gulls nest on the wreck, which is now separated from the pier. As many as 60 harbor seals have been observed by MBNMS to haul out on the PALO ALTO. The CA Office of Spill Prevention and Response (CA OSPR) is coordinating with the State Parks Department to determine appropriate response action which could involve some demolition of the barge to find and access fuel tanks for lightering operations. For more information, contact Scott Kathey at (831) 647-4201.

EDUCATION, VOLUNTEER AND OUTREACH PROGRAMS

On July 8, Heather Cauldwell attended a presentation of VBrick Systems streaming video of a live dive in the MBNMS. The presentation was part of an international trade show held at the Monterey Conference Center sponsored by the Alliance for Community Media. The speakers included Fred Cohn, Deputy City Manager of Monterey; Tom Dudchik of the Mystic Aquarium; and Richard Mavrogeanes, founder of VBrick Systems Inc. Discussions included Monterey's I-NET opportunities, partnerships, cost considerations and future projects. Following the discussion was a live dive by Ernie Kovac, a local cinematographer. Audience members in the conference center were allowed to ask real time questions directly of the divers in the water, as well as pilot the ROV and corresponding camera. For more information, contact Heather Cauldwell at (831) 647-4201 or Dawn Hayes at (831) 647-4256.

Lisa Emanuelson staffed a booth for the Whale Fest at the Monterey Wharf 1 on Sept 3rd and 4th. More than 1000 visitors to the wharf stopped to participate in the watershed model and find out about urban runoff issues. For more information, contact Lisa Emanuelson at (831) 521-9512.

On September 9 and 10, MERITO staff conducted the second annual Watershed Academy Teacher/Youth Leader Training Workshop. Ten teachers, youth leaders and administrators participated in the two-day course on watershed and ocean science environmental education. The workshop provided multicultural teaching pedagogy, hands-on field and in-class activities from the MERITO Watershed Activity Guide and guest presentations by MBNMS partners. All participants received a Marine Science Conservation Kit to facilitate program activities. For more information, contact Cristy Cassel at (831) 647-4215.



SIGNIFICANT NEWS COVERAGE

“California Weekend” by Cary Ordway, La Canada Valley Sun, 7/7/05

“Salinas water testing planned; Several water quality agencies seek volunteers for the monitoring” by Bettina Adragna, Monterey County Herald, 7/9/05

“Cannery Row Co. executive honored; P.G. chamber cites Michael Bekker’s volunteer efforts”, Herald Staff Report, Monterey County Herald, 7/19/05

“Cannery Row Co. executive honored; P.G. chamber cites Michael Bekker's volunteer efforts,” Monterey Herald, 7/19/05 (Michael Bekker is a MBNMS Advisory Council member)

“Sanctuary council to meet in Cambria” Santa Cruz Sentinel, 7/21/05

“Free for all-Affordable adventures in Monterey County, California” Travel Video News, 7/21/05

“P.V. farmers ahead of game on erosion,” by Tom Ragan, Santa Cruz Sentinel (mentions MBNMS and work with agriculture), 7/23/05

“Getting to bottom of deep-sea science; Agencies to vote soon on MARS project for bay seabed” by Rachel Kane, Monterey County Herald, 7/30/05

“Agha landlord for desal partners - Rent indexed to volume of water proposed plant will produce”, Virginia Hennessey, Monterey Herald, 8/7/05

“Undersea cable will expand ocean research”, Monterey Herald Editorial- The Herald’s View, Monterey Herald, 8/7/05

“Carmel Valley - Walter named alternate member of marine sanctuary council”, Monterey Herald – Your Town, 7/29/05

“Monterey Bay - Marine sanctuary council gets new at-large alternate member”, Monterey Herald – Your Town, 8/7/05

“Advocates, businesses fight over bay views”, Editorial, Monterey County Herald, 8/18/05

“Celebrated weekend, jagged little thrill” by James Mayfield, American Airlines In-Flight Magazine, 8/15/05

“Advocates, businesses fight over bay views” Editorial, Monterey County Herald, 8/18/05

“Storm runoff battle looms; Peninsula cities complain of cost, environmentalists of foot dragging” by Virginia Hennessey, Monterey County Herald, 8/27/05

“Storm runoff battle looms; Peninsula cities complain of cost, environmentalists of foot dragging” by Virginia Hennessey, Monterey County Herald, 8/27/05

“Undressing the window; Monterey City Council will decide whether to renew two business leases or further open waterfront” by Ryan Masters, Monterey County Weekly, 9/1/05

“Residents urged to test waters in ‘First Flush’” by Soraya Gutierrez, Santa Cruz Sentinel, 9/6/05

“California Coastal cleanup scheduled for Sept. 17” Monterey County Herald, 9/6/05

WEB SITE (<http://montereybay.noaa.gov/>)

Recent Updates

Visit the web pages listed below to see recently updated sections of the MBNMS web site.

- Sanctuary Advisory Council Member Economic Disclosure Information
<http://montereybay.noaa.gov/intro/advisory/sacmem.html>
- Updated Maps
<http://montereybay.noaa.gov/intro/maps.html>
- Ecosystem Observations
<http://montereybay.noaa.gov/reports/ecoops.html>

*Please take a few moments to peruse the site. Your feedback is greatly appreciated.
Comments and suggestions can be sent to andrew.white@noaa.gov.*

FUN, OCEAN RELATED WEB SITES

Encyclopedia of the Sanctuaries

<http://www.ocean.com/Library/Encyclopedia/>

NOS Data Explorer

<http://www.nos.noaa.gov/dataexplorer/welcome.html>

SIMON

www.mbnms-simon.org

National Marine Sanctuary Program

<http://www.sanctuaries.nos.noaa.gov/>

NOAA National Centers for Coastal Ocean Science

<http://coastalscience.noaa.gov/>

National Estuarine Research Reserve System

<http://nerrs.noaa.gov/>

NOAA Ocean Explorer

<http://oceanexplorer.noaa.gov/>

National Data Buoy Center

<http://www.ndbc.noaa.gov/rmd.shtml>

National Ocean Service

<http://www.nos.noaa.gov/>

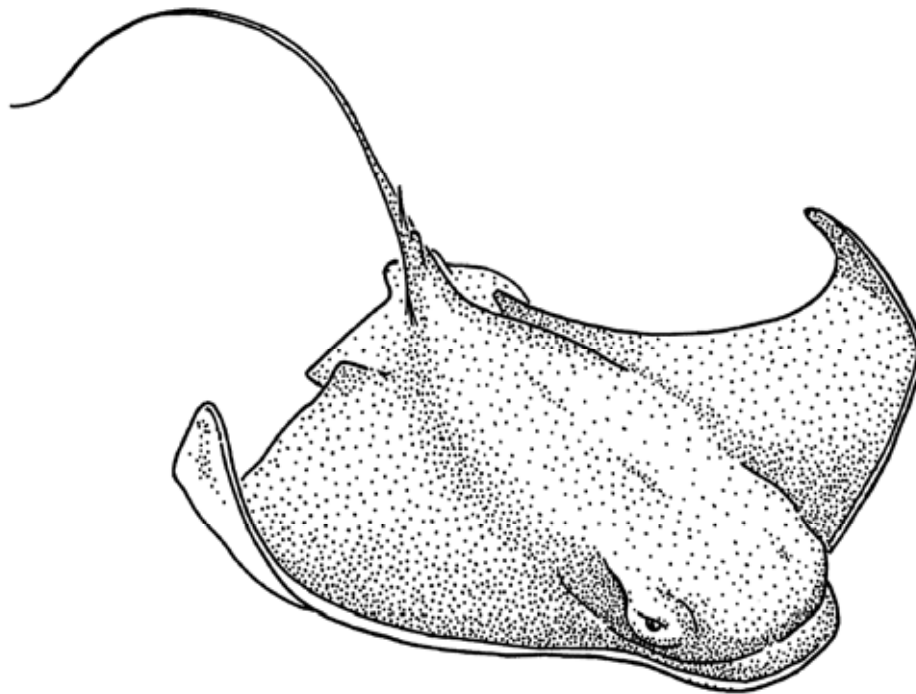
National Oceanic & Atmospheric Administration

<http://www.noaa.gov/>

CALENDAR 2005

OCTOBER	
Oct 7	Channel Islands NMS 25 th Anniversary Gala, www.cinms.nos.noaa.gov
Oct 16	MERITO Tidepool Day, 2 p.m.-4 p.m., Point Pinos
Oct 18	CWG meeting, 9:30 a.m.-12:30 p.m., Moss Landing Harbor District meeting room
Oct 18	World Monitoring Day
NOVEMBER	
Nov 4	RAP Meeting, 9 a.m.-12 p.m., Hopkins Marine Station
Nov 6	MERITO Hike Day, 12:30 p.m.-4:30 p.m., ESNERR
Nov 15	CWG Meeting, 9:30 a.m.-12:30 p.m., Moss Landing Harbor District Meeting Room
Nov 21	SEP Meeting, 3:30 p.m.-5:30 p.m., ESNERR
DECEMBER	
Dec 9	MBNMS/GFNMS Joint Advisory Council Meeting-San Mateo County

****During 2005, the BTAP will be meeting on an as needed basis****



Learn More About Your Sanctuary

The Sanctuary Office Report is produced bi-monthly by the Monterey Bay National Marine Sanctuary in conjunction with Sanctuary Advisory Council meetings. To learn more about the Sanctuary please visit our web site at: <http://www.montereybay.noaa.gov>.

To learn more about the Sanctuary Advisory Council please visit:
<http://www.montereybay.noaa.gov/intro/advisory.html>

The National Marine Sanctuary Program

The Monterey Bay National Marine Sanctuary is one of 13 marine sanctuaries in the National Marine Sanctuary Program. This program was established under the National Marine Sanctuaries Act of 1972 which authorizes the Secretary of Commerce to designate as national marine sanctuaries areas of the marine environment or Great Lakes with special national significance due to their conservation, recreational, ecological, historical, scientific, cultural, archeological, educational, or aesthetic qualities. Visit the NMSP web site at: <http://www.sanctuaries.nos.noaa.gov/>

Get involved and stay informed!

To learn how to get involved in the Sanctuary visit:
<http://montereybay.noaa.gov/educate/internship.html>

Sign up for the MBNMS listserv to receive email notices about upcoming Sanctuary events, and public meetings of the Sanctuary Advisory Council and its Working Groups:
<http://montereybay.noaa.gov/discussiongroups/disgroups.html>.



MBNMS Staff

William Douros – *Sanctuary Superintendent*
Andrew DeVogelaere – Research Coordinator
Erica Burton – Research Assistant
Steve Lonhart – SIMoN Scientist
Jean de Marignac – SIMoN Scientist
Chad King – SIMoN Data Analyst
Josh Pederson – SIMoN Outreach Specialist
Dawn Hayes – Education & Outreach Coordinator
Liz Love – Education Specialist
Lisa Emanuelson – Resource Issue Ed Specialist
Michelle Templeton – MERITO Program Manager
Cristy Cassel – Bilingual Education Specialist
Michele Roest – Education & Outreach Specialist, San Simeon Office
Stacia Fletcher – Education & Outreach Specialist, Santa Cruz Office
Holly Price – Resource Protection Coordinator
Scott Kathey – Regulatory Coordinator
Deirdre Hall – Permit Coordinator
Brad Damitz – Environmental Policy Specialist
Huff McGonigal – Environmental Policy Specialist
Bridget Dobrowski – Agriculture Water Quality Coordinator
Chris Coburn – Water Quality Protection Program Director
Donna Meyers – Regional Water Quality Coordinator
Bridget Hoover – Water Quality Network Coordinator
Lisa de Marignac – Environmental Policy Specialist
Karen Grimmer – Program Operations Coordinator
Sean Morton – Management Plan Coordinator
Paul Chetirkin – Assistant Management Plan Coordinator
Raymond Chisolm – Program Specialist
Rachel Saunders – Community & Public Relations Coordinator
Nicole Capps – Advisory Council Coordinator & Management Support Specialist
Heather Cauldwell – Administrative Assistant
Andrew White – Network Manager

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